

SAFETY DATA SHEET

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: MIRA 334C
Product Name: MIRA CLEAR - SOFT GLOSS
Revision Date: Sep 02, 2015 **Date Printed:** Sep 02, 2015
Version: 1.0 **Supersedes Date:**
Manufacturer's Name: Mira
Address: 473 West 17th Street, Holland, MI 49423
Emergency Phone: 800-535-5053
Information Phone: 616-396-1275
Fax: 616-396-9654

SECTION 2) HAZARDS IDENTIFICATION

Classification:

Skin Irritation - Category 2
Serious Eye Damage - Category 1
Carcinogenicity - Category 1B
Reproductive Toxicity - Category 1B
Corrosive to metals Category 1

Pictograms:



Signal Word:

Danger

Hazardous Statements - Physical:

H290 - May be corrosive to metals

Hazardous Statements - Health:

H315 - Causes skin irritation
H318 - Causes serious eye damage
H350 - May cause cancer
H360 - May damage fertility or an unborn child

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements - Prevention:

P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

P234 - Keep only in original packaging.

Precautionary Statements - Response:

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P321 - For specific treatment see section 4.

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P362 + P364 - Take off contaminated clothing. And wash it before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P390 - Absorb spillage to prevent material damage.

Precautionary Statements - Storage:

P405 - Store locked up.

P406 - Store in a corrosive resistant container with a resistant inner liner.

Precautionary Statements - Disposal:

P501 - Dispose of contents/container to disposal recycling center. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Acute toxicity of 0.2% of the mixture is unknown

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % By Weight |
|--------------|--|-------------|
| 0007732-18-5 | WATER | 34% - 57% |
| 0000057-55-6 | PROPYLENE GLYCOL | 5% - 11% |
| 0000112-59-4 | DIETHYLENE GLYCOL MONOHEXYL ETHER | 1.4% - 3% |
| 0000872-50-4 | N-METHYL-2-PYRROLIDONE | 0.2% - 1.6% |
| 0000121-44-8 | TRIETHYLAMINE | 0.1% - 0.8% |
| 0064742-54-7 | MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC | 0.0% - 0.1% |
| 0064742-46-7 | MINERAL SEAL OIL | Trace |
| 0001336-21-6 | AMMONIUM HYDROXIDE | Trace |
| 0000050-00-0 | FORMALDEHYDE | Trace |

SECTION 4) FIRST-AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell or are concerned.

Skin Contact:

Rinse/wash with lukewarm, gently flowing water (and mild soap) for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

Eye Contact:

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

If you feel unwell or if concerned: Get medical advice/attention.

Ingestion:

Rinse mouth. If you feel unwell or are concerned : Get medical advice/attention.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam, or carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:

No data available.

Specific Hazards in Case of Fire:

Product will not burn but may spatter if temperature exceeds the boiling point of water. Dried solids can burn.

Fire-fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning up:

Dike area to contain spill.

Absorb spill with inert absorbent.

SECTION 7) HANDLING AND STORAGE

General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Keep from freezing.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical Name | OSHA TWA (ppm) | OSHA TWA (mg/m3) | OSHA STEL (ppm) | OSHA STEL (mg/m3) | OSHA Tables (Z1, Z2, Z3) | OSHA Carcinogen | OSHA Skin designation | NIOSH TWA (ppm) | NIOSH TWA (mg/m3) | NIOSH STEL (ppm) | NIOSH STEL (mg/m3) | NIOSH Carcinogen |
|--|----------------|------------------|-----------------|-------------------|--------------------------|-----------------|-----------------------|-----------------|-------------------|------------------|--------------------|------------------|
| FORMALDEHYDE | 0.75 (a) | | 2 / 15minutes | | 1,2 | 1 | | 0.016b | | | | 1 |
| MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC | 500 | 2000 | | | 1 | | | | | | | |
| MINERAL SEAL OIL | 500 | 2000 | | | 1 | | | | | | | |
| TRIETHYLAMINE | 25 | 100 | | | 1 | | | | | | | |

| Chemical Name | ACGIH TWA (ppm) | ACGIH TWA (mg/m3) | ACGIH STEL (ppm) | ACGIH STEL (mg/m3) | ACGIH Carcinogen | ACGIH Notations | ACGIH TLV Basis |
|--|-----------------|-------------------|------------------|--------------------|------------------|-----------------|------------------------|
| FORMALDEHYDE | | | C 0.3 | | A2 | SEN; A2 | URT & eye irr |
| MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC | | | | | | | |
| MINERAL SEAL OIL | | | | | | | |
| TRIETHYLAMINE | 1 | | 3 | | A4 | Skin; A4 | Visual impair; URT irr |

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| | |
|--------------------|----------------|
| Density | 8.72913 lb/gal |
| % Solids By Weight | 30.44860% |
| VOC Actual | 1.10270 lb/gal |
| Specific Gravity | 1.04598 |
| % VOC | 12.63241% |
| Density VOC | 1.10270 lb/gal |

| | |
|-----------------------|-----|
| Appearance | N/A |
| Odor Threshold | N/A |
| Odor Description | N/A |
| pH | N/A |
| Water Solubility | N/A |
| Flammability | N/A |
| Flash Point Symbol | N/A |
| Flash Point | N/A |
| Viscosity | N/A |
| Lower Explosion Level | N/A |
| Upper Explosion Level | N/A |
| Vapor Pressure | N/A |
| Vapor Density | NA |
| Freezing Point | N/A |
| Melting Point | N/A |
| Low Boiling Point | N/A |
| High Boiling Point | N/A |
| Auto Ignition Temp | N/A |
| Decomposition Pt | N/A |
| Evaporation Rate | N/A |
| Coefficient Water/Oil | N/A |

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

Not Available.

Hazardous Reactions/Polymerization:

No data available.

Incompatible Materials:

Strong oxidizers.

Hazardous Decomposition Products:

Burning of dried solids may give off oxides of carbon and nitrogen.

SECTION 11) TOXICOLOGICAL INFORMATION

Specific Target Organ Toxicity - Repeated Exposure:

No Data Available

Specific Target Organ Toxicity - Single Exposure:

No Data Available

Acute Toxicity:

Inhalation may produce symptoms of headache and nausea in poorly ventilated areas.

Skin Corrosion/Irritation:

Prolonged contact may produce temporary reddening of skin.

Causes skin irritation

Serious Eye Damage/Irritation:

Direct contact may cause eye irritation.

Causes serious eye damage

Respiratory/Skin Sensitization:

May contain products the will irritate mucous membrane and respiratory tract.

Germ Cell Mutagenicity:

No Data Available

Carcinogenicity:

May cause cancer

Reproductive Toxicity:

May damage fertility or an unborn child

Aspiration Hazard:

No Data Available

0000050-00-0 FORMALDEHYDE

LC50 (rat): 8000 ppm (4-hour exposure) (24)

LD50 (oral, male rat): 2500 mg/kg (25)

LD50 (oral, rat): 2920 mg/kg (26)

LD50 (dermal, guinea pig): greater than 15000 mg/kg (cited as greater than 0.94 mL/kg) (27)

LD50 (dermal, rat): 5070 mg/kg (28, unconfirmed)

0064742-54-7 MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC

LD50 (Rodent - rat, Oral) : >15 gm/kg ,Toxic effects : Details of toxic effects not reported other than lethal dose value.

LD50(Rodent- rabbit, Administration onto the skin) : >5 gm/kg, Toxic effects : Details of toxic effects not reported other than lethal dose value.

0000121-44-8 TRIETHYLAMINE

LC50 (mouse): 6000 mg/m3 (1452 ppm) (2-hr exposure) (1027 ppm - equivalent 4-hr exposure) (1)

LD50 (oral, rat): 460 mg/kg body weight (2)

LD50 (oral, mouse): 546 mg/kg body weight (1)

LD50 (dermal, rabbit): 410 mg/kg body weight (2)

Potential Health Effects - Miscellaneous

0000872-50-4 N-METHYL-2-PYRROLIDONE

The following medical conditions may be aggravated by exposure: skin disorders. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

SECTION 12) ECOLOGICAL INFORMATION

Persistence and Degradability:

No data available.

Bio-accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Toxicity:

No Data Available

Other adverse effects:

No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:

Not regulated by the US Department of Transportation.

IMDG Information:

No data available.

IATA Information:

No data available.

SECTION 15) REGULATORY INFORMATION

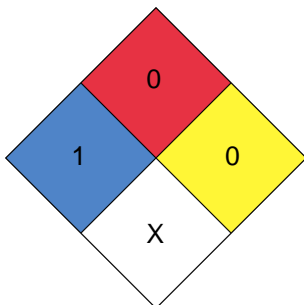
| CAS | Chemical Name | % By Weight | Regulation List |
|--------------|--|-------------|--|
| 0007732-18-5 | WATER | 34% - 57% | TSCA |
| 0000057-55-6 | PROPYLENE GLYCOL | 5% - 11% | SARA312,VOC,TSCA |
| 0000112-59-4 | DIETHYLENE GLYCOL MONOHEXYL ETHER | 1.4% - 3% | HAPS,SARA312,SARA313,VHAPS,VOC,TSCA,CA_TAC_Carcinogen |
| 0000872-50-4 | N-METHYL-2-PYRROLIDONE | 0.2% - 1.6% | Canada_NPRI,SARA312,SARA313,VOC,TSCA,CA_Prop65_Type_Toxicity_Develop - CA_Proposition65_Type_Toxicity_Developmental |
| 0000121-44-8 | TRIETHYLAMINE | 0.1% - 0.8% | Canada_NPRI,HAPS,SARA312,SARA313,VHAPS,VOC,TSCA |
| 0064742-54-7 | MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (MILD) HEAVY PARAFFINIC | 0.0% - 0.1% | SARA312,VOC,TSCA |
| 0064742-46-7 | MINERAL SEAL OIL | Trace | SARA312,VOC,TSCA |
| 0001336-21-6 | AMMONIUM HYDROXIDE | Trace | Canada_NPRI,SARA312,SARA313,TSCA |
| 0000050-00-0 | FORMALDEHYDE | Trace | Canada_NPRI,HAPS,SARA312,SARA313,VHAPS,VOC,TSCA,CA_TAC_Carcinogen,CA_Carcinogen,CA_Prop65_Type_Toxicity_Cancer - CA_Proposition65_Type_Toxicity_Cancer |

SECTION 16) OTHER INFORMATION

General:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

HMIS



Chronic :

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.